5’ DIA TRANSITION TO 4’ DIA

24” OR 30”

ALTERNATE FLAT TOP AASHTO HS-20 LOADING

10”

CONNECTION:
1’, 2’, 2’-6”, 3’, 4’

RISER SECTION
1’, 2’, 3’, 4’

REDUCER SECTION
3’ TALL STANDARD
(5’DIA. TO 4’ DIA.)

24” OR 30”

8”

SEE DETAIL C.
IF STEPS ARE
REQUIRED

DESIGN NOTES:
1. MANUFACTURED TO MEET OR EXCEED: ASTM C-478 & AASHTO M 199 SPECS.
2. CONCRETE = 4,000 PSI. MINIMUM CEMENT PER ASTM C-478 (6.1)
3. REINFORCED STEEL CONFORMS TO LATEST ASTM A 185 SPECIFICATIONS.
   0.15 SQ. IN / LINEAL FT., AND 0.15 SQ. IN (BOTH WAYS) BASE BOTTOM
4. STEEL REINFORCEMENT TO MEET OR EXCEED AASHTO HS-20 LOADING
5. MANHOLE STEPS MEET LATEST OSHA REGULATION 29 CFR1910.27, SECTION 16
   OF ASTM SPECIFICATION C478 AND SECTION 10 OF ASTM SPECIFICATION C497
6. BUTYL RUBBER JOINT SEALANT PER ASTM C-990 & ASHTO M-198
7. WEIGHT PER VERTICAL FOOT=1500 lbs., FLOOR=2470 lbs., FLAT TOP=3250 lbs.